PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Hayes Landfill, Inc.
(including Hayes Sand & Gravel, Inc. and
Buster Cement Products, Inc.)
3450 South Spiceland Road
New Castle, Indiana 47362

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 065-12234-00036	
Original signed by Janet G. McCabe Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: May 15, 2001 Expiration Date: May 15, 2006

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D.2.4 Record Keeping Requirements

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary municipal solid waste landfill, a stationary sand and gravel processing plant and a stationary ready mix batch concrete plant.

Responsible Official:	Randy Hayes
Source Address:	3450 South Spiceland Road, New Castle, Indiana 47362
Mailing Address:	3450 South Spiceland Road, New Castle, Indiana 47362
General Source Phone Number:	765 529-0287
SIC Code	4953 and 1442
County Location:	Henry
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This source consists of three (3) plants:

(a) The landfill operated by Hayes Landfill, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362;

(b) The sand & gravel processing plant operated by Hayes Sand & Gravel, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362, and

(c) The ready mix concrete batch plant operated by Buster Cement Products, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362.

Since the landfill, the sand and gravel processing plant and the batch concrete plant are all located on contiguous properties, are all under common control and the sand and gravel plant supplies its product directly to the landfill and the batch concrete plant, they will all be considered one (1) source, effective from the date of issuance of this Part 70 permit.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

Municipal Solid Waste Landfill

(a) One (1) municipal solid waste landfill, three (3) passive vents, known as R1, R2 and R3, opened in 1972, modified in June 1999, design capacity: 2,857,050 megagrams.

Sand and Gravel Processing Plant

(b) One (1) stationary sand and gravel processing plant, installed in 1994, capacity: 250 tons of sand and gravel per hour consisting of:

(1) Two (2) screens, maximum capacity: 250 tons of sand and gravel per hour,

(2) Eleven (11) conveyors, maximum capacity: 250 tons of sand and gravel per hour, and

(3) Two (2) hoppers, maximum capacity: 250 tons of sand and gravel per hour.

Ready Mix Concrete Batch Plant

(c) One (1) stationary ready mix concrete batch plant, installed in 1976 , capacity: 100 tons of concrete per hour, equipped with two (2) silo baghouses for particulate matter control, installed in 1985, exhausted through Stacks 1 and 2. The plant shall consist of conveying, transporting and product storage operations. The plant shall utilize the following equipment:

(1) Three (3) aggregate bins,

(2) One (1) aggregate batcher,

(3) Two (2) conveyors,

(4) Two (2) cement storage silos (pneumatic filling), known as north and south, each equipped with a passive flow baghouse controlling particulate matter emissions from loading and unloading operations,

(5) One (1) cement batcher, and

(6) One (1) receiving hopper.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(c) Any of the following structural steel and bridge fabrication activities: cutting 200,000 linear feet or less of one inch (1") plate or equivalent; using 80 tons or less of welding consumables.

(d) Conveyors as follows: Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]

(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When

furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; or

(3) Denial of a permit renewal application.

(b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard

Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.12 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit

shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. All previously issued operating permits are superseded by this permit.

(c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.14 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

(2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-4]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20 (b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy any records that must be kept under the conditions of this permit;

(c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit

fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on May 4, 2000 and June 22, 2000. The plans consist of applying water with a water truck on all roads and storage piles on an as-needed basis.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.12 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less often than once an hour until such time as the continuous monitor is back in operation.

(b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:

(A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking reasonable response steps including a schedule

for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps may constitute a violation of the permit.

(c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within “normal” parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.

(f) At its discretion, IDEM may excuse the Permittee’s failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Municipal Solid Waste Landfill

(a) One (1) municipal solid waste landfill, three (3) passive vents, known as R1, R2 and R3, opened in 1972, modified in June 1999, design capacity: 2,857,050 megagrams.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart WWW.

D.1.2 Municipal Solid Waste Landfill [326 IAC 12] [40 CFR 60.752, NSPS Subpart WWW]

The municipal solid waste landfill has a design capacity greater than 2.5 million megagrams (Mg) and shall either comply with 40 CFR 60.752 (b)(2) or calculate the non methane organic compound (NMOC) emission rate for the landfill using the procedures specified in 40 CFR 60.754.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.3 Non Methane Organic Compound (NMOC) Rate Calculation [40 CFR 60.754]

Pursuant to 40 CFR 60.754 the Permittee shall:

(a) Calculate the non methane organic compound (NMOC) emission rate using either the equation provided in 40 CFR 60.754(a)(1)(i) or the equation provided in 40 CFR 60.754(a) (1)(ii). Both equations may be used if the actual year-to-year solid waste acceptance rate is known, as specified in 40 CFR 60.754(a)(1)(i), for part of the life of the landfill and the actual year-to-year solid waste acceptance rate is unknown, as specified in paragraph 40 CFR 60.754(a)(1)(ii), for part of the life of the landfill. The values to be used in both equations are 0.05 per year for k, 170 cubic meters per megagram for L_o, and 4,000 parts per million by volume as hexane for the C_{NMOC}. For landfills located in geographical areas with a thirty year annual average precipitation of less than 25 inches, as measured at the nearest representative official meteorologic site, the k value to be used is 0.02 per year.

The following equation shall be used if the actual year-to-year solid waste acceptance rate is known:

$$M_{NMOC} = \sum_{i=1}^{n} 2\ k\ L_O M_i\ (e^{-kt}i)\ (C_{NM} OC)\ (3.6x10^{-}9)$$

where,

M_{NMOC}= Total NMOC emission rate from the landfill, megagrams per year
k = methane generation rate constant, $year^{-1}$
L_o= methane generation potential, cubic meters per megagram solid waste
M_i= mass of solid waste in the i^{th} section, megagrams
t_i= age of the i^{th} section, years

C_{NMOC}= concentration of NMOC, parts per million by volume as hexane
3.6×10^{-9}= conversion factor

The mass of the nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i if documentation of the nature and amount of such wastes is maintained.

The following equation shall be used if the actual year-to-year solid waste acceptance rate is unknown:

$$M_{NMOC} = 2 L_o R (e^{-kc} - e^{-kt})(C_{NMOC})(3.6 \times 10^{-9})$$

where,

M_{NMOC} = mass emission rate of NMOC, megagrams per year
L_o = methane generation potential, cubic meters per megagram solid waste
R = average annual acceptance rate, megagrams per year
k = methane generation rate constant, year $^{-1}$
t = age of landfill, years
C_{NMOC} = concentration of NMOC, parts per million by volume as hexane
c = time since closure, years. For active landfill c = 0 and $e^{-kc} = 1$
3.6×10^{-9} = conversion factor

The mass of the nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i if documentation of the nature and amount of such wastes is maintained.

(b) Tier 1. The Permittee shall compare the calculated NMOC mass emission rate to the standard of 50 megagrams per year.

If the NMOC emission rate calculated in 40 CFR 60.754(a)(1) is less than 50 megagrams per year, then the landfill owner shall submit an emission rate report as provided in 40 CFR 60.757(b)(1), and shall recalculate the NMOC mass emission rate annually as required under 40 CFR 60.752(b)(1). If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, then the Permittee shall either comply with 40 CFR 60.752(b) (2), or determine a site-specific NMOC concentration and recalculate the NMOC emission rate using the procedures provided in 40 CFR 60.754(a)(3).

Tier 2. The Permittee shall determine the NMOC concentration using the following sampling procedure. The Permittee shall install at least two sample probes per hectare of landfill surface that has retained waste for at least 2 years. If the landfill is larger that 25 hectares in area, only 50 samples are required. The sample probes should be located to avoid known areas of nondegradable solid waste. The Permittee shall collect and analyze one sample of landfill gas from each probe to determine the NMOC concentration using Method 25C of appendix A of 40 CFR 60 or Method 18 of appendix A of 40 CFR 60. If using Method 18 of appendix A of 40 CFR 60, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). If composite sampling is used, equal volumes shall be taken from each sample probe. If more than the required number of samples are taken, all samples shall be used in analysis. The Permittee shall divide the NMOC concentration from Method 25C of appendix A by six to convert from C_{NMOC} as carbon to C_{NMOC} as hexane.

The Permittee shall recalculate the NMOC mass emission rate using the equations provided in 40 CFR 60.754(a)(1)(i) and (a)(1)(ii) and using the average NMOC concentration from the collected samples instead of the default value in the equation provided in 40 CFR 60.754(a)(1).

If the resulting mass emission rate calculated using the site-specific NMOC concentration is equal to or greater that 50 megagrams per year, then the Permittee shall either comply with 40 CFR 60.752(b)(2), or determine the site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the procedure specified in 40 CFR 60.754(a)(4).

If the resulting NMOC mass emission rate is less than 50 megagrams per year, the Permittee shall submit a periodic estimate of the emission rate report as provided in 40 CFR 60.757(b)(1) and retest the site-specific NMOC concentration every five (5) years using the methods in 40 CFR 60.754(a)(3).

Tier 3. The site-specific methane generation rate constant shall be determined using the procedures provided in Method 2E of appendix A of 40 CFR 60. The Permittee shall estimate the NMOC mass emission rate using equations in 40 CFR 60.754(a)(1)(i) or (a)(1)(ii) and using a site-specific methane generation rate constant k, and the site-specific NMOC concentration as determined in 40 CFR 60.754(a)(3) instead of the default values provided in 40 CFR 60.754(a)(1). The Permittee shall compare the resulting NMOC mass emission rate to the standard of 50 megagrams per year.

If the NMOC mass emission rate as calculated using the site-specific methane generation rate and concentration of NMOC is equal to or greater than 50 megagrams per year, the Permittee shall comply with 40 CFR 60.752(b)(2).

If the NMOC mass emission rate is less than 50 megagrams per year, then the Permittee shall submit a periodic emission rate report as provided in 40 CFR 60.757(b)(1) and shall recalculate the NMOC mass emission rate annually, as provided in 40 CFR 60.757(b)(1) using the equations in 40 CFR 60.754(a)(1) and using the site-specific methane generation rate constant and NMOC concentration obtained in 40 CFR 60.754(a)(3). The calculation of the methane generation rate constant is performed only once, and the value obtained from this test shall be used in all subsequent annual NMOC emission rate calculations.

The Permittee may use other methods to determine the NMOC concentration or a site-specific k as an alternative to the methods required in 40 CFR 60.754(a)(3) and (a)(4) if the method has been approved by the Administrator.

(c) When calculating emissions for PSD purposes, the owner or operator of each municipal solid waste landfill subject to 40 CFR 60.754 shall estimate the NMOC emission rate for comparison to the PSD major source and significance levels in 40 CFR 51.166 or 40 CFR 52.21 using AP-42 or other approved measurement procedures. If a collection system, which complies with the provisions of 40 CFR 60.752(b)(2) is already installed, the Permittee shall estimate the NMOC emission rate using the procedures provided in 40 CFR 60.754(b).

D.1.4 Reporting Requirements [40 CFR 60.757]

Pursuant to 40 CFR 60.757, except as provided in 40 CFR 60.752(b)(2)(i)(B), the Permittee shall:

(a) Submit an initial design capacity report to the Office of Air Quality (OAQ) no later than 90 days after October 8, 1997. An amended design capacity report shall be submitted to the Office of Air Quality (OAQ) providing notification of any increase in the design capacity of the

landfill, a change in the operating procedures, or any other means which results in an increase in the maximum design capacity of the landfill above 2.5 million megagrams or 2.5 million cubic meters. The Permittee's initial design capacity report was submitted on June 10, 1996.

(b) Submit a non methane organic compound (NMOC) emission rate report to the Office of Air Quality initially and annually thereafter, except as provided for in 40 CFR 60.757(b)(1) (ii) or (b) (3). The Office of Air Quality (OAQ) may request such additional information as may be necessary to verify the reported NMOC emission rate. The report should contain an annual or 5-year estimate of the non methane organic compound (NMOC) emission rate using the formula and procedures provided in 40 CFR 60.754 (a) or (b), as applicable. The initial NMOC emission rate report may be combined with the initial design capacity report required in 40 CFR 60.757(a) and shall be submitted no later than indicated in paragraphs 40 CFR 60.757(b)(1)(i)(A) and (B). June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996, or ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996. Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided in 40 CFR 60.757(b)(1)(ii) and (b)(3). If the estimated NMOC emission rate as reported in the annual report to the Office of Air Quality (OAQ) is less than 50 megagrams per year in each of the next five (5) consecutive years, the Permittee may elect to submit an estimate of the NMOC emission rate for the next five (5) year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five (5) years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Office of Air Quality (OAQ). This estimate shall be revised at least once every five (5) years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five (5) year estimate, a revised five (5) year estimate shall be submitted to the Office of Air Quality. The revised estimate shall cover the five (5) year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. The NMOC emission rate report shall include all the data, calculations, sample reports, and measurements used to estimate the annual or five (5) year emission rate. The Permittee is exempted from the requirements of 40 CFR 60.757(b)(1) and (2) after the installation of a collection and control system in compliance with 40 CFR 60.752 (b)(2), during such time as the system is in operation and in compliance with 40 CFR 60.753 and 60.755.

(c) Submit a collection and control system design plan to the Office of Air Quality (OAQ) within one (1) year of the first non methane organic compound (NMOC) emission rate report, required under 40 CFR 60.757(b), in which NMOC emission rate exceeds 50 megagrams (Mg) per year; except if the Permittee elects to recalculate the NMOC emission rate after Tier 2 sampling and analysis as provided in 40 CFR 60.754(a)(3) and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year. If the Permittee elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k), as provided in Tier 3 in 40 CFR 60.754(a)(4), and the resulting NMOC emission rate is less than 50 megagrams per year, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of 40 CFR 60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Office of Air Quality (OAQ) within one (1) year of the first calculated emission rate exceeding 50 megagrams per year.

(d) Submit a closure report to the Office of Air Quality (OAQ) within thirty days of waste acceptance cessation. The Office of Air Quality (OAQ) may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Office of Air Quality (OAQ), no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4).

(e) Submit an equipment removal report to the Office of Air Quality (OAQ) thirty (30) days prior to removal or cessation of operation of the control equipment. The equipment removal report shall contain all of the following items: a copy of the closure report submitted in accordance with 40 CFR 60.757(d), a copy of the initial performance test report demonstrating that the fifteen (15) year minimum control period has expired, and dated copies of three (3) successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year. The Office of Air Quality (OAQ) may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 60.752(b)(2)(v) have been met.

(f) A summary of the above information shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit.

D.1.5 Record Keeping Requirements [326 IAC 12] [40 CFR 60.758]

Pursuant to 40 CFR 60.758:

(a) Except as provided in 40 CFR 60.752(b)(2)(i)(B), the Permittee subject to 40 CFR 60.752(b) shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 CFR 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four (4) hours. Either paper copy or electronic formats are acceptable.

(b) Landfill owners or operators who convert design capacity from volume to mass or mass to volume to demonstrate that landfill design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, as provided in the definition of “design capacity”, shall keep readily accessible, on-site records of the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within four (4) hours. Either paper copy or electronic formats are acceptable.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Sand and Gravel Processing Plant

(b) One (1) stationary sand and gravel processing plant, installed in 1994, capacity: 250 tons of sand and gravel per hour consisting of:

(1) Two (2) screens, maximum capacity: 250 tons of sand and gravel per hour,

(2) Eleven (11) conveyors, maximum capacity: 250 tons of sand and gravel per hour, and

(3) Two (2) hoppers, maximum capacity: 250 tons of sand and gravel per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the nonfugitive sand and gravel processing operations shall not exceed 61.0 pounds per hour when operating at a process weight rate of 250 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

(b) Nonfugitive emissions will be considered in compliance with 326 IAC 6-3-2 in the absence of particulate matter compliance tests provided that visible emissions do not exceed those specified in Section C - Opacity.

D.2.2 Prevention of Significant Deterioration [326 IAC 2-2]

Any change or modification which may increase the potential to emit PM and/or PM_{10} to 250 tons per year from this source shall cause this source to be considered a major source under 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.3 Visible Emissions Notations

(a) Visible emission notations of the nonfugitive processes (screening, loading and unloading hoppers and conveying) shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.4 Record Keeping Requirements

(a) To document compliance with Condition D.2.3, the Permittee shall maintain records of visible emission notations screening, loading and unloading hoppers and conveying processes once per shift.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Ready Mix Concrete Batch Plant

(c) One (1) stationary ready mix concrete batch plant, installed in 1976 , capacity: 100 tons of concrete per hour, equipped with two (2) silo baghouses for particulate matter control, installed in 1985, exhausted through Stacks 1 and 2. The plant shall consist of conveying, transporting and product storage operations. The plant shall utilize the following equipment:

(1) Three (3) aggregate bins,

(2) One (1) aggregate batcher,

(3) Two (2) conveyors,

(4) Two (2) cement storage silos (pneumatic filling), known as north and south, each equipped with a passive flow baghouse controlling particulate matter emissions from loading and unloading operations,

(5) One (1) cement batcher, and

(6) One (1) receiving hopper.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the nonfugitive concrete batch processing operations shall not exceed 51.3 pounds per hour when operating at a process weight rate of 100 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

(b) Nonfugitive emissions will be considered in compliance with 326 IAC 6-3-2 in the absence of particulate matter compliance tests provided that visible emissions do not exceed those specified in Section C - Opacity.

D.3.2 Prevention of Significant Deterioration [326 IAC 2-2]

Any change or modification which may increase the potential to emit PM and/or PM_{10} to 250 tons per year from this source shall cause this source to be considered a major source under 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this concrete batch plant and its control devices.

Compliance Determination Requirements

D.3.4 Particulate Matter (PM)

In order to comply with Condition D.3.1 and Section C - Opacity, the baghouses for PM control shall be in operation and control emissions from the concrete batch plant at all times that the silos are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.5 Visible Emissions Notations

(a) Visible emission notations of the baghouse exhaust, Stacks 1 and 2, shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.3.6 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the silo loading and unloading operations when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.3.7 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be

considered a violation of this permit.

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Record Keeping Requirements

(a) To document compliance with Condition D.3.5, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts once per shift.

(b) To document compliance with Condition D.3.6, the Permittee shall maintain records of the results of the inspections required under Condition D.3.6 and the dates the vents are re-directed.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Any of the following structural steel and bridge fabrication activities: cutting 200,000 linear feet or less of one inch (1") plate or equivalent; using 80 tons or less of welding consumables. [326 IAC 6-3-2]

(d) Conveyors as follows: Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983. [326 IAC 6-3-2]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.4.2 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured

at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when the solvent used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.4.3 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the brazing, soldering, welding, cutting and covered conveyor operations shall not exceed allowable PM emission

rate based on the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

or

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Hayes Landfill, Inc.
Source Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Mailing Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Part 70 Permit No.: T 065-12234-00036

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Hayes Landfill, Inc.
Source Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Mailing Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Part 70 Permit No.: T 065-12234-00036

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Hayes Landfill, Inc.
Source Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Mailing Address: 3450 South Spiceland Road, New Castle, Indiana 47362
Part 70 Permit No.: T 065-12234-00036

Months: _____ **to** _____ **Year:** _____

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.

Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for a Part 70 Operating Permit

Source Name:	**Hayes Landfill, Inc.**
Source Location:	**3450 South Spiceland Road, New Castle, Indiana 47362**
County:	**Henry**
SIC Code:	**4953 and 1442**
Operation Permit No.:	**T 065-12234-00036**
Permit Reviewer:	**Frank P. Castelli**

On March 12, 2001, the Office of Air Quality (OAQ) had a notice published in the Courier Times, New Castle, Indiana, stating that Hayes Landfill, Inc. had applied for a Part 70 Operating Permit to operate a municipal solid waste landfill with control. The notice also stated that OAQ proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating Permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Part 70 Operating Permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the Part 70 Operating Permit: The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded)**:

Change 1 Condition A.1 (General Information) has been revised to include a general source phone number.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

General Source Phone Number: 765 529-0287

Change 2 Condition B.7 (Duty to Supplement and Provide Information) was revised to change a rule reference. Subpart (c) references 326 IAC 17. This rule was repealed by the Air Pollution Control Board on January 26, 2000. The new rule reference has been added as follows:

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17**.1**. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

Change 3 Condition B.8 (Compliance with Permit Conditions) has been changed to change "condition" to "Section" in subpart (c).

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

(c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in ~~condition~~ **Section** B, Emergency Provisions.

Change 4 Condition B.13 (Permit Shield) has been revised to add a word for clarification.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed **in** compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

Change 5 Condition B.18 (Permit Amendment or Modification) has been changed to replace “should” with “shall” in subpart (b).

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application ~~should~~ **shall** be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

Change 6 Condition B.20 (Operational Flexibility) has been changed to clarify the reason a certification is not required.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification ~~which shall be submitted~~ by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Change 7 Condition B.24 (Annual Fee Payment) has been changed to add "to" in subpart (a) as follows:

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

(a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. Pursuant **to** 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAM, the applicable fee is due April 1 of each year.

Change 8 Condition C.8 (Asbestos Abatement Projects) has been revised to clarify whether or not the requirement for an inspector be accredited is federally enforceable. 326 IAC 14-10 (Emission Standards for Asbestos) was not submitted as a SIP and not approved. Therefore, this requirement cannot be federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 17] [40 CFR 61, Subpart M]

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, **pursuant to the provision of 40 CFR 61, Subpart M,** is federally enforceable.

Change 9 Condition C.16 (Compliance Monitoring Plan – Failure to Take Response Steps) has been changed to remove a reference to a condition that no longer exists.

C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:

(4) The Record Keeping and Reporting Requirements in Section C (~~Monitoring Data Availability,~~ General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

Change 10 Condition C.20 (d) has revised as follows

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(d) Unless otherwise specified in this permit, ~~any quarterly or semi-annual~~ **all** report**s** required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. **All** ~~The~~ reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Change 11 Appropriate forms have been revised to include the IDEM, OAQ address. Also, the address has been revised to be consistent with the address references in Section B.

~~P.O. Box 6015~~
100 North Senate Avenue
~~100 North Senate Avenue~~
P.O. Box 6015

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name:	**Hayes Landfill, Inc. (including Hayes Sand & Gravel, Inc. and Buster Cement Products, Inc.)**
Source Location:	**3450 South Spiceland Road, New Castle, Indiana 47362**
County:	**Henry**
SIC Code:	**4953 and 1442**
Operation Permit No.:	**T 065-12234-00036**
Permit Reviewer:	**Frank P. Castelli**

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from Hayes Landfill, Inc. relating to the operation of a municipal solid waste landfill, a sand and gravel processing plant and a ready mix batch concrete plant.

Source Definition

This source consists of three (3) plants:

(a) The landfill operated by Hayes Landfill, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362;

(b) The sand and gravel processing plant operated by Hayes Sand & Gravel, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362, and

(c) The ready mix concrete batch plant operated by Buster Cement Products, Inc. is located at 3450 South Spiceland Road, New Castle, Indiana 47362.

Since the landfill, the sand and gravel processing plant and the batch concrete plant are all located on contiguous properties, are all under common control and the sand and gravel plant supplies its product directly to the landfill and to the batch concrete plant, they will all be considered one (1) source. The applicant has requested that all three (3) operations be considered one (1) source and be issued a single Part 70 Operating Permit.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

Municipal Solid Waste Landfill

(a) One (1) municipal solid waste landfill, three (3) passive vents, known as R1, R2 and R3, opened in 1972, modified in June 1999, design capacity: 2,857,050 megagrams.

Note, prior to the issuance of 40 CFR Part 60.750 - 60.759, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills, on March 12, 1996, landfills were considered fugitive or area source unless there was a control device and therefore were not required to be permitted. Subpart WWW established that landfills be treated as point sources and therefore be subjected to the air permitting rules for point sources. Thus, since this landfill does not have or require a control device, the landfill has been listed under this section.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

Sand and Gravel Processing Plant

(b) One (1) stationary sand and gravel processing plant, installed in 1994, capacity: 250 tons of sand and gravel per hour consisting of:

(1) Two (2) screens, maximum capacity: 250 tons of sand and gravel per hour,

(2) Eleven (11) conveyors, maximum capacity: 250 tons of sand and gravel per hour, and

(3) Two (2) hoppers, maximum capacity: 250 tons of sand and gravel per hour.

Ready Mix Concrete Batch Plant

(c) One (1) stationary ready mix concrete batch plant, installed in 1976 , capacity: 100 tons of concrete per hour, equipped with two (2) silo baghouses for particulate matter control, installed in 1985, exhausted through Stacks 1 and 2. The plant shall consist of conveying, transporting and product storage operations. The plant shall utilize the following equipment:

(1) Three (3) aggregate bins,

(2) One (1) aggregate batcher,

(3) Two (2) conveyors,

(4) Two (2) cement storage silos (pneumatic filling), known as north and south, each equipped with a passive flow baghouse controlling particulate matter emissions from loading and unloading operations,

(5) One (1) cement batcher, and

(6) One (1) receiving hopper.

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.

(b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

(c) The following VOC and HAP storage containers: storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

(d) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

(e) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(f) Cleaners and solvents characterized as follows: having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38EC (100EF) or; having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(g) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(h) Closed loop heating and cooling systems.

(i) Any of the following structural steel and bridge fabrication activities: cutting 200,000 linear feet or less of one inch (1") plate or equivalent; using 80 tons or less of welding consumables.

(j) Paved and unpaved roads and parking lots with public access.

(k) Conveyors as follows: Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;

(l) Emergency generators as follows: gasoline generators not exceeding 110 horsepower; diesel generators not exceeding 1,600 horsepower.

(m) Farm operations.

Existing Approvals

There are no previous air approvals for this source.

Enforcement Issue

(a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment*.

(b) IDEM is aware that the source was not issued a FESOP by December 14, 1996 nor did they submit a Part 70 application by that date.

(c) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on May 4, 2000. Additional information was received on June 22, 2000.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See pages 1 through 13 of 13 of Appendix A of this document for detailed emissions calculations for the three (3) operations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	**Potential To Emit** (tons/year)
PM	1,809
PM_{10}	428
SO_2	2.0
VOC	9.11
CO	3.0
NO_X	10.0

Note: For the purpose of determining Title V applicability for particulates, PM_{10}, not PM, is the regulated pollutant in consideration.

HAPs	**Potential To Emit** (tons/year)
1,1,1 Trichloroethane	0.015
1,1,2,2 Tetrachloroethane	0.043
1,1 Dichloroethane	0.054
1,1 Dichloroethene	0.004
1,2 Dichloroethane	0.009
1,2 Dichloropropane	0.005
Acrylonitrile	0.078
Benzene	0.035
Carbon Disulfide	0.010
Carbon Tetrachloride	0.000
Carbonyl Sulfide	0.007
Chlorobenzene	0.007
Chloroethane	0.019
Chloroform	0.001
Chloromethane	0.014
Dichlorobenzene	0.007
Dichloromethane	0.218
Ethyl Benzene	0.113
Ethylene dibromide	0.000
Hexane	0.131
Hydrogen Sulfide	0.280
Mercury	0.000
Methyl Ethyl Ketone	0.118
Methyl Isobutyl Ketone	0.043
Perchloroethylene	0.143
Toluene	0.838
Trichloroethylene	0.086
Vinyl Chloride	0.106
Xylene	0.297
Total	2.74

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM_{10} is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) Since this landfill source has a design capacity that exceeds 2.5 million megagrams of municipal solid waste, this source is subject to the provisions of 326 IAC 2-7.

(c) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

No previous emission data has been received from the source.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 Operating Permit.

	Limited Potential to Emit (tons/year)						
Process/facility	**PM**	**PM_{10}**	**SO_2**	**VOC**	**CO**	**NO_X**	**HAPs**
Landfill (1972, modified 1999)	0.000	0.000	0.000	2.11	0.00	0.00	2.74
Sand & Gravel (1994) Non-Fugitive	3.77	1.80	0.00	0.00	0.00	0.00	0.00
Landfill & Sand & Gravel Fugitive	840	177	0.00	0.00	0.00	0.00	0.00
Concrete Batch (1976)							
Nonfugitive	22.9	22.9	0.00	0.00	0.00	0.00	0.00
Fugitive	22.2	4.81	0.00	0.00	0.00	0.00	0.00
Insignificant Activities	1.0	1.0	2.0	7.0	3.0	10.0	5.0
Total Nonfugitive	27.7	25.7	2.00	9.11	3.00	10.0	7.74
Total Fugitive	862	182	0.00	0.00	0.00	0.00	0.00
Total Emissions	890	182	2.00	9.11	3.00	10.0	7.74

Note: The landfill, concrete and sand & gravel processing operations include the fugitive PM and PM_{10} emissions which are not counted toward determination of PSD applicability. Since the total nonfugitive PM and PM_{10} emissions from the source are less than 250 tons per year, the source is not subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

County Attainment Status

The source is located in Henry County.

Pollutant	Status
PM_{10}	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Henry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Henry County has been classified as attainment or unclassifiable for all the remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(c) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

(a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.

(b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

(a) This Part 70 does not involve a pollutant-specific emissions unit with the potential to emit after control in an amount equal to or greater than one hundred (100) tons per year. Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable.

(b) Since the Sand & Gravel Plant, installed in 1993 does not have a crusher, the sand plant is

not subject to the requirements of the New Source Performance Standard 326 IAC 12, 40 CFR Parts 60.670 through 60.676, Subpart OOO.

(c) Since the stationary concrete batch plant, installed in 1976 does not have a crusher, the concrete plant is not subject to the requirements of the New Source Performance Standard 326 IAC 12, 40 CFR Parts 60.670 through 60.676, Subpart OOO.

(d) This municipal solid waste landfill is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.750 - 60.759, Subpart WWW), Standards of Performance for Municipal Solid Waste Landfills. This rule applies to each municipal solid waste landfill (MSW) that commenced construction, reconstruction, or modification or began accepting waste on or after May 30, 1991. This municipal solid waste landfill began accepting waste in 1972, but was modified after May 30, 1991, to increase its capacity to greater than 2.5 million megagrams of municipal solid waste. Therefore, it is subject to the applicable requirements of this rule. The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to this landfill except when otherwise specified in 40 CFR 60 Subpart WWW.

This landfill has a maximum design capacity of 2,857,050 megagrams and a maximum NMOC emission rate of 4.90 megagrams (5.40 tons) calculated for 2004. Since the calculated NMOC emission rate is less than 50 megagrams per year, the landfill will not be required to install a collection and control system in compliance with 40 CFR Part 60.752(b)(2).

Pursuant to this rule, the following shall apply:

(1) Each owner or operator of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams or 2.5 million cubic meters, shall either comply with 40 CFR Part 60.752(b)(2) or calculate an NMOC emission rate for the landfill using the procedures specified in 40 CFR Part 60.754. The NMOC emission rate shall be recalculated annually, except as provided in 40 CFR Part 60.757(b)(1)(ii).

(2) The owner or operator of an MSW landfill subject to this subpart with a design capacity greater than or equal to 2.5 million megagrams or 2.5 million cubic meters is subject to part 70 permitting requirements. When a landfill is closed, and either never needed control or meets the conditions for control system removal specified in 40 CFR Part 60.752(b)(2)(v) of this subpart, a part 70 operating permit is no longer required.

(3) Since the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:

(i) Submit an annual emission report to IDEM, OAQ, except as provided for in 40 CFR Part 60.757(b)(1)(ii); and

(ii) Recalculate the NMOC emission rate annually using the procedures specified in 40 CFR Part 60.754(a)(1) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.

(4) If the landfill is permanently closed, a closure notification shall be submitted to the IDEM, OAQ as provided for in 40 CFR Part 60.757(d).

(5) Except as provided in 40 CFR Part 60.752(b)(2)(i)(B),

(i) Each owner or operator subject to the requirements of this subpart shall

submit an initial design capacity report to the IDEM, OAQ. The Permittee's initial design capacity report was submitted on June 10, 1996.

(A) The initial design capacity report shall fulfill the requirements of the notification of the date construction is commenced as required under 40 CFR Part 60.7(a)(1) and shall be submitted no later than the earliest day from the following:

(i) 90 days of the issuance of the State, Local, Tribal, or RCRA construction or operating permit; or

(ii) 30 days of the date of construction or reconstruction as defined under 40 CFR Part 60.15; or

(iii) 30 days of the initial acceptance of solid waste.

(B) The initial design capacity report shall contain the following information:

(i) A map or plot of the landfill, providing the size and location of the landfill, and identifying all areas where solid waste may be landfilled according to the provisions of the State, local, Tribal, or RCRA construction or operating permit;

(ii) The maximum design capacity of the landfill. Where the maximum design capacity is specified in the State or local construction or RCRA permit, a copy of the permit specifying the maximum design capacity may be submitted as part of the report. If the maximum design capacity of the landfill is not specified in the permit, the maximum design capacity shall be calculated using good engineering practices. The calculations shall be provided, along with such parameters as depth of solid waste, solid waste acceptance rate, and compaction practices as part of the report. The State, Tribal, local agency or IDEM, OAQ may request other reasonable information as may be necessary to verify the maximum design capacity of the landfill.

(C) An amended design capacity report shall be submitted to the IDEM, OAQ providing notification of any increase in the design capacity of the landfill, whether the increase results from an increase in the permitted area or depth of the landfill, a change in the operating procedures, or any other means which results in an increase in the maximum design capacity of the landfill above 2.5 million megagrams or 2.5 million cubic meters. The amended design capacity report shall be submitted within 90 days of the issuance of an amended construction or operating permit, or the placement of waste in additional land, or the change in operating procedures which will result in an increase in maximum design capacity, whichever occurs first.

(ii) Each owner or operator subject to the requirements of this subpart shall

submit an NMOC emission rate report to IDEM, OAQ initially and annually thereafter, except as provided for in 40 CFR Part 60.757(b)(1)(ii) or 40 CFR Part 60.757(b)(3). The IDEM, OAQ may request such additional information as may be necessary to verify the reported NMOC emission rate.

(A) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR Part 60.754(a) or (b), as applicable.

(I) The initial NMOC emission rate report shall be submitted within 90 days of the date waste acceptance commences and may be combined with the initial design capacity report required in 40 CFR Part 60.757(a). Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided for in 40 CFR Part 60.757(b)(1)(ii) and 40 CFR Part 60.757(b)(3).

(II) If the estimated NMOC emission rate as reported in the annual report to the IDEM, OAQ is less than 50 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the IDEM, OAQ. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the IDEM, OAQ. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

(B) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

(C) Each owner or operator subject to the requirements of this subpart is exempted from the requirements of paragraphs (ii)(A) and (B) above, after the installation of a collection and control system in compliance with 40 CFR Part 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with 40 CFR Part 60.753 and 60.755.

(6) Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator of an MSW landfill subject to the provisions of 40 CFR Part 60.752(b) shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

(e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 63, applicable to this source. 40 CFR Part 61.140 through 61.157, Subpart M (National

Emission Standards for Asbestos) is not applicable to this source because this source is not an asbestos mill, is not a roadway using asbestos tailings, does not manufacture any products containing asbestos, does not demolish or renovate, does not fabricate using commercial asbestos, is not a waste disposal site for asbestos mills, is not a waste disposal site for asbestos containing waste material from aforementioned activities and does not convert asbestos containing waste material into non-asbestos materials.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

Appendix A demonstrates that at the sum of the potential emissions after controls from the nonfugitive emissions are less than the PSD threshold level of 250 tons per year. Therefore, the source is not subject to the requirement of 326 IAC 2-2.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM_{10}. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year).

326 IAC 2-7-5(13) (Preventive Maintenance Plan)

(a) A Preventive Maintenance Plan is required for concrete batch plant because the allowable PM emissions exceed ten (10) pounds per hour and the silos have control devices.

(b) A Preventive Maintenance Plan is not required for the sand & gravel plant because the actual non-fugitive PM emissions are less than twenty five (25) tons per year without a control device.

326 IAC 5-1 (Opacity Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR Part 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material from the landfill, sand & gravel and concrete batch operations escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

The fugitive dust plans submitted May 4, 2000 and June 22, 2000 for the source consists of using a water truck to water all roads and storage piles on an as-needed basis.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Process Operations)

The particulate matter (PM) from the concrete batch and sand & gravel plants shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0 P^{0.11} - 40$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

The allowable PM emission rates shall not exceed the following based upon the process weight rate in the table:

Operation	**Process Weight Rate** (tons per hour)	**Allowable PM Emission Rate** (pounds per hour)	**Potential PM Emission Rate After Controls** (pounds per hour)
Sand & Gravel Plant	250	61.0	0.861
Concrete Batch Plant	100	51.3	5.22

Both plants comply with the allowable PM emission rates.

Insignificant Activities

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the brazing, soldering, welding, cutting and covered conveyor operations shall not exceed the allowable emission rate of particulate matter per hour as determined by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0 P^{0.11} - 40$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or

greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 20-6 (Halogenated Solvent Cleaning)

The degreaser is not subject to this rule and 40 CFR 63 Subpart T since it does not use any halogenated solvents.

Testing Requirements

(a) Since there is no gas collection system or emission limits on the passive vents, no testing is required at this landfill as part of the Part 70 requirements.

(b) No testing is required for the sand & gravel plant, since it is not subject to NSPS Subpart OOO and there are no control devices.

(c) No testing is required for the concrete batch plant, since it is not subject to NSPS Subpart OOO and the potential to emit PM before controls for the cement transfer operation is 17.3 tons per year.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would

serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

(a) This landfill shall comply with the requirements of NSPS Subpart WWW.

These monitoring conditions are necessary because comply with the NSPS and 326 IAC 2-7 (Part 70).

(b) The concrete batch plant has applicable compliance monitoring conditions as specified below:

(1) Visible emissions notations of the silo baghouses shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

(2) An inspection shall be performed each calender quarter of all bags controlling the operations at this source when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

(3) In the event that bag failure has been observed:

(A) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

(B) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the baghouse for the concrete batching

process must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-7 (Part 70).

Note that although each silo is equipped with a baghouse, there is no continuous forced flow, only passive flows due to the loading and unloading of the silos. There are no pressure gauges installed on these baghouses. Therefore, no compliance monitoring of pressure drops is required.

(c) The sand and gravel plant has applicable compliance monitoring conditions as specified below:

Visible emissions notations of the nonfugitive processes (screening and conveying)` shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Conclusion

The operation of this municipal solid waste landfill, sand and gravel processing plant and ready mix batch concrete plant shall be subject to the conditions of the attached proposed **Part 70 Permit No. T 065-12234-00036.**

Company Name: **Hayes Landfill, Inc.**
Address City, Indiana: **3450 South Spiceland Road, New Castle, Indiana 47362**
Part 70 : **T 065-12234**
Plt Id: **065-00036**
Reviewer: **Frank P. Castelli**
Date: **May 4, 2000**

Based upon Tier II Analysis

Landfill Gas Compound	MW (lb/lb-mol)	Concentration ppmv	HAP Emission (lbs/hr)	(tons/yr)
1,1,1 Trichloroethane	133.42	0.48	0.003	0.015
1,1,2,2 Tetrachloroethane	167.85	1.11	0.010	0.043
1,1 Dichloroethane	98.95	2.35	0.012	0.054
1,1 Dichloroethene	96.94	0.20	0.001	0.004
1,2 Dichloroethane	98.96	0.41	0.002	0.009
1,2 Dichloropropane	112.98	0.18	0.001	0.005
Acrylonitrile	53.06	6.33	0.018	0.078
Benzene	78.11	1.91	0.008	0.035
Carbon Disulfide	76.13	0.58	0.002	0.010
Carbon Tetrachloride	153.84	0.004	0.000	0.000
Carbonyl Sulfide	60.07	0.49	0.002	0.007
Chlorobenzene	112.56	0.25	0.001	0.007
Chloroethane	64.52	1.25	0.004	0.019
Chloroform	119.39	0.03	0.000	0.001
Chloromethane	50.49	1.21	0.003	0.014
Dichlorobenzene	147.00	0.21	0.002	0.007
Dichloromethane	84.94	14.3	0.064	0.281
Ethyl Benzene	106.16	4.61	0.026	0.113
Ethylene dibromide	187.88	0.001	0.000	0.000
Hexane	86.18	6.57	0.030	0.131
Hydrogen Sulfide	34.08	35.5	0.064	0.280
Mercury	200.61	0.000294	0.000	0.000
Methyl Ethyl Ketone	72.11	7.09	0.027	0.118
Methyl Isobutyl Ketone	100.16	1.87	0.010	0.043
Perchloroethylene	165.83	3.73	0.033	0.143
Toluene	92.13	39.3	0.191	0.838
Trichloroethylene	131.38	2.82	0.020	0.086
Vinyl Chloride	62.50	7.34	0.024	0.106
Xylene	106.16	12.1	0.068	0.297
Total			**0.626**	**2.74**

SCFM 334 R 0.7302 520 atm-ft^3/lb-mol R

Emission factors from AP-42 Tables 2.4-1 and 2.4-2
Emissions (lbs/hr) = ppmv/1000000 * SCFM/Gas Constant (R) * 60 min/hr * MW/Temp (R)

For the five (5) year period 2000 - 2004
Worst Case US EPA Landfill Gas Emissions Model (LGEM) Results Provided By Applicant & used Lo and K default values as well as a Tier II test performed in 12/99

VOC	**2.11**	**tons/yr**	**Lo = 100.00 m^^3/mg**
NMOC	**5.40**	**tons/yr**	**k = 0.0400 yr^^-1**

VOC assumed to be 39% of NMOC

Appendix A: Emission Calculations
Sand & Gravel Processing

Company Name:	Hayes Sand & Gravel, Inc.
Address City IN Zip:	3450 South Spliceland Road, New Castle, Indiana 47362
Part 70:	T 065-12234
Plt ID:	065-00036
Reviewer:	Frank P. Castelli
Date:	May 4, 2000

* * emissions before controls * *
(TSP)

Storage			** see page 2 **					3.10	tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting			** see page 3 **					1675.74	tons/yr	AP-42 Ch.13.2.2 (Supplement E, 9/98)
Loading & Unloading	250	ton/hr x	0.0016	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	1.77	tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95)
Crushing (primary)	0	ton/hr x	0.00504	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)	0	ton/hr x	0.00504	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)	0	ton/hr x	0.00504	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Screening	250	ton/hr x	0.0315	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	34.49	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer	250	ton/hr x	0.00294	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	3.22	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Total emissions before controls:								1718.32	tons/yr	

* * emissions after controls * *

Storage	3.10	tons/yr x	10%	emitted after controls =	0.31	tons/yr
Transporting	1675.74	tons/yr x	50%	emitted after controls =	837.87	tons/yr
Loading & Unloading	1.77	tons/yr x	100%	emitted after controls =	1.77	tons/yr
Crushing (primary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (secondary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (tertiary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Screening	34.49	tons/yr x	10%	emitted after controls =	3.45	tons/yr
Conveying	3.22	tons/yr x	10%	emitted after controls =	0.32	tons/yr
Total emissions after controls:					843.72	tons/yr

* * fugitive vs. nonfugitive * *

Storage	3.10	tons/yr x	10%	emitted after controls =	0.31	tons/yr
Transporting	1675.74	tons/yr x	50%	emitted after controls =	837.87	tons/yr
Loading / Unloading	1.77	tons/yr x	100%	emitted after controls =	1.77	tons/yr
Total fugitive emissions:					839.95	tons/yr

Crushing (primary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (secondary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (tertiary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Screening	34.49	tons/yr x	10%	emitted after controls =	3.45	tons/yr
Conveying:	3.22	tons/yr x	10%	emitted after controls =	0.32	tons/yr
Total nonfugitive emissions:					3.77	tons/yr

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)	
=	1.85	lb/acre/day
where s =	1.6	% silt content of material
p =	125	days of rain greater than or equal to 0.01 inches
f =	15	% of wind greater than or equal to 12 mph

Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)	
=	3.10	tons/yr
where sc =	250	,000 tons storage capacity

* * unpaved roads * *

The following calculations determine the amount of emissions created by unpaved roads,
based on 8760 hours of use and AP-42, Ch 13.2.2 (Supplement E, 9/98).
Two methods are provided for calculating emissions. The first does not consider natural mitigation due to precipitation.

20	trip/hr x	
1	mile/trip x	
2	(round trip) x	
8760	hr/yr =	350400 miles per year

Method 1:

Ef = k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]
= 14.55 lb/mile

where k =	10.0	(particle size multiplier for PM-10(k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.5	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.4	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	27.50	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)

14.55 lb/mi x 350400 mi/yr = 2548.52 tons/yr
2000 lb/ton

This method has a lower quality rating than Method 1.

Method 2 Ef = {k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]
= 9.56 lb/mile

where k =	10.0	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.5	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.4	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	27.50	tons average vehicle weight
Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
p =	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

9.56 lb/mi x 350400 mi/yr = 1675.74 tons/yr
2000 lb/ton

* * aggregate handling * *

The following calculations determine the amount of emissions created by truck
loading and unloading of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4 (Fifth edition, 1/95).

Ef = k*(0.0032)* (U/5)^1.3/(M/2)^1.4
= 0.0016 lb/ton

where k =	0.74	(particle size multiplier)
U =	10	mile/hr mean wind speed
M =	5	% material moisture content

Appendix A: Emission Calculations
Sand & Gravel Processing

Company Name:	Hayes Sand & Gravel, Inc.
Address City IN Zip:	3450 South Spliceland Road, New Castle, Indiana 47362
Part 70:	T 065-12234
Plt ID:	065-00036
Reviewer:	Frank P. Castelli
Date:	May 4, 2000

* * emissions before controls * *
(PM-10)

Storage	** see page 2 **						3.10	tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting	** see page 3 **						349.11	tons/yr	AP-42 Ch.13.2.2 (Supplement E, 9/98)
Loading & Unloading	250	ton/hr x	0.0016	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	1.77	tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95)
Crushing (primary)	0	ton/hr x	0.0024	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)	0	ton/hr x	0.0024	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)	0	ton/hr x	0.0024	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	0.00	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Screening	250	ton/hr x	0.015	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	16.43	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer	250	ton/hr x	0.0014	lb/ton	/ 2000 lb/ton x	8760 hr/yr =	1.53	tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Total emissions before controls:							371.94	tons/yr	

* * emissions after controls * *

Storage	3.10	tons/yr x	10%	emitted after controls =	0.31	tons/yr
Transporting	349.11	tons/yr x	50%	emitted after controls =	174.55	tons/yr
Loading & Unloading	1.77	tons/yr x	100%	emitted after controls =	1.77	tons/yr
Crushing (primary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (secondary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (tertiary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Screening	16.43	tons/yr x	10%	emitted after controls =	1.64	tons/yr
Conveying	1.53	tons/yr x	10%	emitted after controls =	0.15	tons/yr
Total emissions after controls:					178.43	tons/yr

* * fugitive vs. nonfugitive * *

Storage	3.10	tons/yr x	10%	emitted after controls =	0.31	tons/yr
Transporting	349.11	tons/yr x	50%	emitted after controls =	174.55	tons/yr
Loading / Unloading	1.77	tons/yr x	100%	emitted after controls =	1.77	tons/yr
Total fugitive emissions:					176.63	tons/yr
Crushing (primary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (secondary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Crushing (tertiary)	0.00	tons/yr x	10%	emitted after controls =	0.00	tons/yr
Screening	16.43	tons/yr x	10%	emitted after controls =	1.64	tons/yr
Conveying:	1.53	tons/yr x	10%	emitted after controls =	0.15	tons/yr
Total nonfugitive emissions:					1.80	tons/yr

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)	
=	1.85	lb/acre/day
where s =	1.6	% silt content of material
p =	125	days of rain greater than or equal to 0.01 inches
f =	15	% of wind greater than or equal to 12 mph

Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)	
=	3.10	tons/yr
where sc =	250	,000 tons storage capacity

Hayes Sand & Gravel, Inc.
New Castle, Indiana

Part 70 T 065-12234
Plt ID 065-00036

* * unpaved roads * *

The following calculations determine the amount of emissions created by unpaved roads,
based on 8760 hours of use and AP-42, Ch 13.2.2 (Supplement E, 9/98).
Two methods are provided for calculating emissions. The first does not consider natural mitigation due to precipitation.

20	trip/hr x	
1	mile/trip x	
2	(round trip) x	
8760	hr/yr =	350400 miles per year

Method 1:

Ef =	k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]	
=	3.03	lb/mile
where k =	2.6	(particle size multiplier for PM-1((k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	27.50	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)

3.03 lb/mi x 350400 mi/yr = 530.93 tons/yr
2000 lb/ton

This method has a lower quality rating than Method 1.

Method 2:

Ef =	{k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]	
=	1.99	lb/mile
where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	27.50	tons average vehicle weight
Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
p =	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

1.99 lb/mi x 350400 mi/yr = 349.11 tons/yr
2000 lb/ton

* * aggregate handling * *

The following calculations determine the amount of emissions created by truck
loading and unloading of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4 (Fifth edition, 1/95).

Ef =	k*(0.0032)* (U/5)^1.3/(M/2)^1.4	
=	0.0016	lb/ton
where k =	0.74	(particle size multiplier)
U =	10	mile/hr mean wind speed
M =	5	% material moisture content

Appendix A: Emission Calculations
Stationary Concrete Batch Plants - Attainment Area

Company Name: Buster Cement Products, Inc.
Address City IN Zip: 3450 South Spliceland Road, New Castle, Indiana 47362
Part 70: T 065-12234
Plt ID: 065-00036
Reviewer: Frank P. Castelli
Date: May 4, 2000

** PM emissions before controls **

Storage			** see page 2 **					0.01	tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting			** see page 3 **					43.76	tons/yr	AP-42 Ch. 13.2.2 (Supplement E, 9/98)
Aggregate Dropping	81.5	ton/hr x	0.0016	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.58	tons/yr	AP-42 Ch. 13.2.4 (Fifth edition, 1/95)
Aggregate Transfer	81.5	ton/hr x	0.029	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	10.35	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Cement Transfer	16.5	ton/hr x	0.24	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	17.34	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Weigh Scale Loading	100.0	ton/hr x	0.02	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	8.76	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Mixer Loading	0.0	ton/hr x	0.04	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.00	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Truck Loading	100.0	ton/hr x	0.02	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	8.76	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Total emissions before controls:								89.56	tons/yr	

**PM emissions after controls **

Storage	0.01	tons/yr x	50.0%	emitted after controls =	0.00	tons/yr
Transporting	43.76	tons/yr x	50.0%	emitted after controls =	21.88	tons/yr
Aggregate Dropping	0.58	tons/yr x	50.0%	emitted after controls =	0.29	tons/yr
Aggregate Transfer	10.35	tons/yr x	50.0%	emitted after controls =	5.18	tons/yr
Cement Transfer	17.34	tons/yr x	1.0%	emitted after controls =	0.17	tons/yr
Weigh Scale Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Mixer Loading	0.00	tons/yr x	100.0%	emitted after controls =	0.00	tons/yr
Truck Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Total emissions after controls:					45.04	tons/yr

* * fugitive vs. nonfugitive * *

Storage	0.01	tons/yr x	50.0%	emitted after controls =	0.00	tons/yr
Transporting	43.76	tons/yr x	50.0%	emitted after controls =	21.88	tons/yr
Aggregate Dropping	0.58	tons/yr x	50.0%	emitted after controls =	0.29	tons/yr
Total fugitive emissions:					22.17	tons/yr
Weigh Scale Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Mixer Loading	0.00	tons/yr x	100.0%	emitted after controls =	0.00	tons/yr
Truck Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Aggregate Transfer	10.35	tons/yr x	50.0%	emitted after controls =	5.18	tons/yr
Cement Transfer	17.34	tons/yr x	1.0%	emitted after controls =	0.17	tons/yr
Total nonfugitive emissions:					22.87	tons/yr

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)	
=	1.85	lb/acre/day
where s =	1.6	% silt content of material
p =	125	days of rain greater than or equal to 0.01 inches
f =	15	% of wind greater than or equal to 12 mph
Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)	
=	0.01	tons/yr
where sc =	0.8	,000 tons storage capacity

PM Emissions

* * unpaved roads * *

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (Supplement E, 9/98).
Two methods are provided for calculating emissions. The first method does not consider natural mitigation due to precipitation.

5	trip/hr x	
0.1	mile/trip x	
2	(round trip) x	
8760	hr/yr =	8760 miles per year

Method 1:

Ef = k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]

= 15.19 lb/mile

where k =	10	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.5	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.4	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	30	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)

$$\frac{15.19 \text{ lb/mi} \times 8760 \text{ mi/yr}}{2000 \text{ lb/ton}} = 66.55 \text{ tons/yr}$$

This method has a lower quality rating than Method 1.

Method 2:

Ef = {k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]

= 9.99 lb/mile

where k =	10	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.5	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.4	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	30	tons average vehicle weight
Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
p =	125	no. of days with at least 0.254mm of precipitation (See Fig. 13.2.2-1)

$$\frac{9.99 \text{ lb/mi} \times 8760 \text{ mi/yr}}{2000 \text{ lb/ton}} = 43.76 \text{ tons/yr}$$

* * aggregate handling * *

The following calculations determine the amount of emissions created by dropping of material, based on 8760 hours of use and AP-42 13.2.4 (Fifth edition, 1/95).

Ef = k*(0.0032)* (U/5)^1.3/(M/2)^1.4

= 0.0016 lb/ton

where k =	0.74	(particle size multiplier)
U =	10	mile/hr mean wind speed
M =	5	% material moisture content

The following calculations determine the emissions created by natural gas combustion based on 8,760 hours of use and EPA SCC #1-03-006-03 (FIRE 6.01):

Pollutant: 0 MMBtu/hr * 8760 hr/yr / 1000 Btu/cf * 2000 lb/ton * Ef (lb/MMcf) = Emission rate (tons/yr)

P M*:	4.5	lb/MMcf =	0.00	tons/yr	*filterable PM only
S O x:	0.6	lb/MMcf =	0.00	tons/yr	
N O x:	100.0	lb/MMcf =	0.00	tons/yr	
V O C:	5.3	lb/MMcf =	0.00	tons/yr	
C O:	21.0	lb/MMcf =	0.00	tons/yr	

SOx, NOx, VOC and CO emissions are small enough to be negligible since the pollutant of concern is particulate matter.
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

The following calculations determine compliance with 326 IAC 6-2-4:

limit = 1.09 / (0) ^26 = ERR ERR

0.00 ton/yr x 2000 lb/ton / 8760 hr/yr x 0 MMBtu/hr = ERR lb/MMBtu ERR

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates less than or equal to 30 tons per hour:

limit = 55 * (100 ^ 0.11) - 40 = 51.28 lb/hr

22.8695 tons/yr x 2000 lb/ton / 8760 hr/yr = 5.22 lb/hr (will comply)

**** PM-10 emissions before controls ****

Storage			** see page 2 **					0.01	tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting			** see page 3 **					9.04	tons/yr	AP-42 Ch. 13.2.2 (Supplement E, 9/98)
Aggregate Dropping	81.5	ton/hr x	0.0016	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.58	tons/yr	AP-42 Ch. 13.2.4 (Fifth edition, 1/95)
Aggregate Transfer	81.5	ton/hr x	0.029	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	10.35	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Cement Transfer	16.5	ton/hr x	0.24	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	17.34	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Weigh Scale Loading	100.0	ton/hr x	0.02	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	8.76	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Mixer Loading	0.0	ton/hr x	0.04	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	0.00	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Truck Loading	100.0	ton/hr x	0.02	lb/ton	/ 2000 lb/ton x	8760	hr/yr =	8.76	tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Total emissions before controls:								54.84	tons/yr	

**** PM-10 emissions after controls ****

Storage	0.01	tons/yr x	50.0%	emitted after controls =	0.00	tons/yr
Transporting	9.04	tons/yr x	50.0%	emitted after controls =	4.52	tons/yr
Aggregate Dropping	0.58	tons/yr x	50.0%	emitted after controls =	0.29	tons/yr
Aggregate Transfer	10.35	tons/yr x	50.0%	emitted after controls =	5.18	tons/yr
Cement Transfer	17.34	tons/yr x	1.0%	emitted after controls =	0.17	tons/yr
Weigh Scale Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Mixer Loading	0.00	tons/yr x	100.0%	emitted after controls =	0.00	tons/yr
Truck Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Total emissions after controls:					27.68	tons/yr

* * fugitive vs. nonfugitive * *

Storage	0.01	tons/yr x	50.0%	emitted after controls =	0.00	tons/yr
Transporting	9.04	tons/yr x	50.0%	emitted after controls =	4.52	tons/yr
Aggregate Dropping	0.58	tons/yr x	50.0%	emitted after controls =	0.29	tons/yr
Total fugitive emissions:					4.81	tons/yr
Weigh Scale Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Mixer Loading	0.00	tons/yr x	100.0%	emitted after controls =	0.00	tons/yr
Truck Loading	8.76	tons/yr x	100.0%	emitted after controls =	8.76	tons/yr
Aggregate Transfer	10.35	tons/yr x	50.0%	emitted after controls =	5.18	tons/yr
Cement Transfer	17.34	tons/yr x	1.0%	emitted after controls =	0.17	tons/yr
Total nonfugitive emissions:					22.87	tons/yr

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)	
=	1.85	lb/acre/day
where s =	1.6	% silt content of material
p =	125	days of rain greater than or equal to 0.01 inches
f =	15	% of wind greater than or equal to 12 mph
Ep (storage) =	Ef*sc*(40 cuft/ton)/(2000 lb/ton)/(43560 sqft/acre)/(25 ft)*(365 day/yr)	
=	0.01	tons/yr
where sc =	0.8	,000 tons storage capacity

PM-10

* * unpaved roads * *

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (Supplement E, 9/98).
Two methods are provided for calculating emissions. The first method does not consider natural mitigation due to precipitation.

5	trip/hr x	
0.1	mile/trip x	
2	(round trip) x	
8760	hr/yr =	8760 miles per year

Method 1:

Ef = k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]

=	3.14	lb/mile
where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	30	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)

3.14 lb/mi x 8760 mi/yr = 13.74 tons/yr
2000 lb/ton

This method has a lower quality rating than Method 1.

Method 2:

Ef = {k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]

=	2.06	lb/mile
where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	30	tons average vehicle weight
Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
p =	125	no. of days with at least 0.254mm of precipitation (See Fig. 13.2.2-1)

2.06 lb/mi x 8760 mi/yr = 9.04 tons/yr
2000 lb/ton

* * aggregate handling * *

The following calculations determine the amount of emissions created by dropping of material, based on 8760 hours of use and AP-42 13.2.4 (Fifth edition, 1/95).

Ef = k*(0.0032)* (U/5)^1.3/(M/2)^1.4

=	0.0016	lb/ton
where k =	0.74	(particle size multiplier)
U =	10	mile/hr mean wind speed
M =	5	% material moisture content